ABOUT THIS DEGREE PROGRAM

A FOUNDATION IN TECHNOLOGY
This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you’ll need for today’s Internet of Things (IoT) economy. You’ll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE
With this program, you’ll not only be armed with the Tech Core experience, but you’ll also be exposed to a variety of concepts that can help guide your specialization choice in Big Data and Analytics, Software Design and Programming, and Web and Mobile Application Development.

IS THIS PROGRAM FOR YOU?
Interested in a career in software development but not sure where to focus? With this program, you’ll become familiarized with methods for improving software design and application product development to help guide your degree specialization choice.

CAREER OPPORTUNITIES
Graduates of DeVry’s Software Development degree program may consider, but are not limited to, the following careers:

• Software Application Developer
• Software Systems Developer

WHAT YOU’LL LEARN

ESSENTIALS
• Communicate methods and findings
• Collaborate in dynamic work environments
• Solve complex problems
• Analyze numerical data
• Apply appropriate technologies

TECH CORE
• Produce, secure, operate and troubleshoot small enterprise networks
• Network, secure and deploy digital devices and sensors into the IoT ecosystem
• Solve technical problems using an algorithmic approach and basic programming and coding methods
• Install and configure operating systems using command-line interface (CLI)

PROGRAM
• Design web distributed systems
• Develop applications
• Analyze and design software systems
• Product life cycle management

QUICK FACTS

120 CREDIT HOURS
minimum credit hours required for graduation

2 + 8 YEARS + MONTHS
minimum length to graduation

THE SMART WAY TO BE UNDECIDED
With our undecided model, you’ll be exposed to three different specializations and be better armed to choose your path.

PORTABLE IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our portable IoT Kit, you’ll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and other tools you will use to build relevant IoT systems.

1 Must declare a specialization by 60 credit hours for bachelor’s degree program.
2 Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/online-programs.html.
Bachelor’s Degree Program

Software Development

ESSENTIALS

COMMUNICATION SKILLS
ENGL112 Composition
ENGL135 Advanced Composition
ENGL216 Technical Writing
SPPC275 Public Speaking

HUMANITIES
ETHC232 Ethical and Legal Issues in the Professions
LAS432 Technology, Society, and Culture

SOCIAL SCIENCES
ECON312 Principles of Economics
SOSC185 Culture and Society
SOC325 Environmental Sociology

MATHEMATICS AND NATURAL SCIENCES
MATH114 Algebra for College Students
MATH221 Statistics for Decision-Making
MATH233 Discrete Mathematics
PHYS204 Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT
CARD405 Career Development
COLL148 Critical Thinking and Problem-Solving

TECH CORE

TECH CORE
CEIS101 Introduction to Technology and Information Systems
CEIS106 Introduction to Operating Systems
CEIS111 Introduction to Programming
CEIS114 Introduction to Digital Devices
NETW191 Fundamentals of Information Technology and Networking
NETW211 Fundamentals of Cloud Computing
SEC285 Fundamentals of Information Security

PROGRAM

INFORMATION SYSTEMS AND PROGRAMMING
CEIS236 Database Systems and Programming Fundamentals
CEIS312 Introduction to Artificial Intelligence and Machine Learning
CIS170C Programming with Lab
CIS247C Object-Oriented Programming with Lab

APPLICATION DEVELOPMENT
CEIS295 Data Structures and Algorithms
CIS321 Structured Analysis and Design
CIS339 Object-Oriented Analysis and Design
CIS355A Business Application Programming with Lab
WEB375 Web Architecture with Lab

SENIOR PROJECT
CEIS392 Product, Project, and People Management
CEIS494 Senior Project I
CEIS496 Senior Project II

TECHNOLOGY CAREER PREPARATION
CEIS299 Careers and Technology
CEIS499 Preparation for the Profession

SPECIALIZED

Students who have not chosen an area of specialization may begin the program in “Undecided” status; however, they must select a specialization by the time they have earned 60 semester credit hours toward their degree.

Available specializations are:
- Big Data and Analytics
- Software Design and Programming
- Web and Mobile Application Development

Demonstrate Skills at Every Step

EMBEDDED PROGRAMS
Acquire an additional two credentials with our unique 3-in-1 design. Courses in our Programming Essentials certificate and Information Technology and Networking associate degree are inserted within our online Software Development degree program. So you can earn a certificate and an associate degree on the way to your bachelor’s degree.